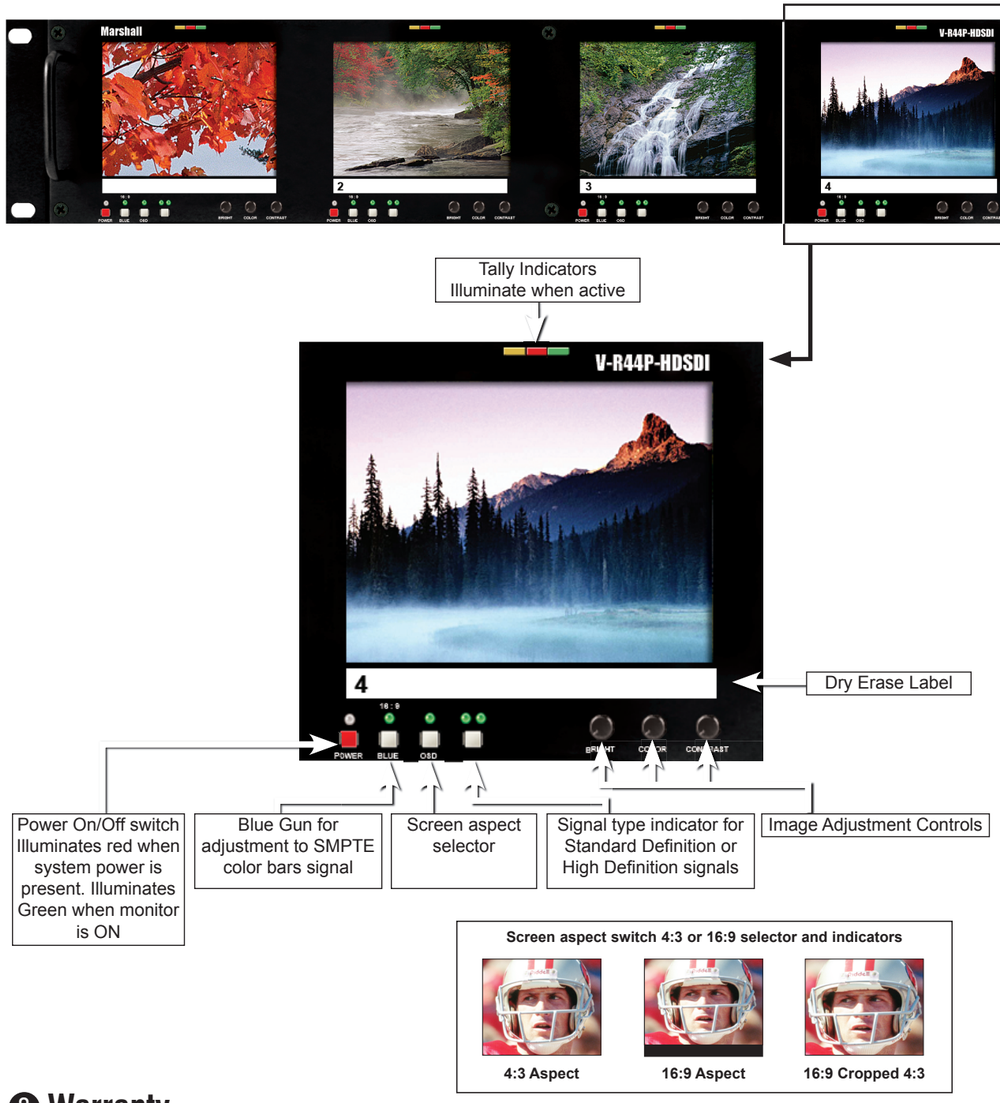
❼ Switch Settings, Adjustments and Indicators



❽ Warranty

Marshall Electronics warranties to the first consumer, that this V-R44P-HDSDI Quad 3.5 inch LCD rack mounted monitor set will, under normal use, be free from defects in workmanship and materials, when received in its original container, for a period of one year from the purchase date. This warranty is extended to the purchasing end user only and proof of purchase is necessary to honor the warranty. If there is no proof of purchase provided with a warranty claim, Marshall Electronics reserves the right not to honor the warranty set forth above. Therefore, labor and parts may be charged to you.

This warranty does not apply to product exterior and cosmetics. Misuse, abnormal service or handling, improper alterations or modifications in design or construction, voids this warranty. No sales personnel of the seller, nor any other person is authorized to make any warranties other than those described above, or to extend the duration of any warranties on behalf of Marshall Electronics, beyond the time period described above.

An extra note about LCD displays: It is considered normal for a minimal amount of pixels, not to exceed three, to fail on the periphery of the display active viewing area. Marshall Electronics has the option to reserve service for display pixel failure if deemed unobtrusive to effective use of the monitor by our technicians.

Due to constant effort to improve products and product features, specifications may change without notice.

Ver.2010-0216

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V-R44P-HDSDI Users Guide

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❶ Product Overview

The Rack mounted and tiltable **V-R44P-HDSDI** represents leading edge technology in TFT-Megapixel™ imaging for broadcast and professional video applications featuring Advanced Resolution, Anti Glare TFT screens with completely digital signal processing. All SMPTE/ITU serial digital video standards and frame rates are accepted and displayed on each screen of this model. All video formats are scaled to fit on screen in the highest resolution using a state of the art LSI that incorporates 4x4 pixel interpolations with precision Gamma correction to produce the best images available. Each screen is calibrated to SMPTE standards for gamma and color temperature.

❷ Features

- **Small Footprint – occupies only 2RU of a standard EIA 19 inch rack**
- **Lightweight – weighs less than 5 pounds**
- **All adjustments and selections are readily available. No menus!**
- **Four 3.5-inch Advanced Definition 4:3 screens**
- **On screen display (OSD) on each screen to indicate signal format**
- **100% digital processing**
- **High resolution scaling of all images**
- **Wide viewing radius - 130° horizontal and 120° vertical provides superior visibility when the viewer is not directly in front of the screen**
- **300 candelas per square meter (cd/m^2) luminance produces enhanced image quality in varying light and viewing conditions**
- **350:1 ratio of contrast between black and white luminance values with response rates less than 30 ms results in excellent quality for moving images**
- **All inputs automatically terminate**
- **Includes V-PS12-5V-1 Universal power supply (U.L. class 2)**
- **Low Power Consumption – 10 Watt typical**
- **Advanced LED backlight**
- **Tilt adjustment provides optimal horizontal view characteristics and flexible rack placement**
- **Dry erase label for each screen**
- **4:3 and 16:9 screen aspect ratios for DTV applications in HD and SD formats**
- **Works with all SMPTE/ITU SDI/HDSDI production formats and frame rates**
- **Blue Gun for color adjustment**
- **SD/HD digital signal indicators**
- **Three Tally lamps per display**

❸ Specifications

Number of Screens	4
Display (Viewing Area)	3.5” diagonal (2.83”H × 2.07”V) (72.0mm x 52.56mm)
Viewing Angles	100°H x 50° V
Screen Colors (Bit Depth)	262,000 (18 Bit)
Color Gamut	SMPTE-C 72%
Screen Treatment	Anti Glare
Backlight	White LCD (10,000 hour life) (Field Replaceable)
Tally System	Separate Red, Green, Amber per display-GPI or TTL Low active
Color Temperature	D-65
Resolution (Dots)	640H × 480V (921,600 pixels RGB)
Dot Pitch	0.1125 mm (W) x 0.1095mm (H)
Contrast Ratio	350:1
Pixel Response	<30ms typical
Brightness (in cd/m²)	250 cd/m²
System	All SMPTE SDI / HDSDI formats and frame rates
Dimensions	19.12”W x 3.5”H x 2.5”D (48.6cm x 130.5cm x 63.5cm)
Approx. Weight	5 lbs
Power Consumption	12VDC/10 watts. – (5.5 Amps max - UL Class 2 supply included)
Operating Temperature	0° C to 60° C
Input/Output per screen	HDSDI / SDI with re-clocked output (BNC)

❺ Operational Setup

1. Unpack the V-R44P-HDSDI and accompanying V-PS12-5V-1 power supply. Physically inspect for any damage that may have occurred during shipping. Should there be any damage, immediately contact Marshall Electronics at 800-800-6608. If you are not located within the continental united states call +1 310-333-0606.

2. After inspection, install in your desired location of a standard EIA 19-inch equipment rack.
   Adequate ventilation is required when installed to prevent possible damage to the V-R44P-HDSDI internal components.

3. Connect required cables for signal input and output. Please note that power must be applied to the V-R44P-HDSDI for all outputs to be activated. All BNC connectors should be rated for 75Ω.

4. Plug the V-PS12-5V-1 power supply into the A.C. source

5. Attach twist lock power connection from V-PS12-5V-1 power supply to the back of the unit.

6. Turn on each screen of the V-R44P-HDSDI by depressing the power switch located on the front of the unit.

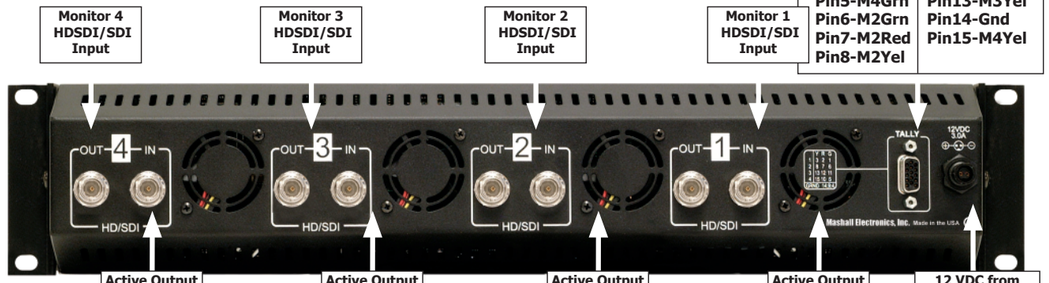
❻ Connectors

*** HDSDI/SDI inputs comply to SMPTE259M / ITU-R BT601**

*** All Outputs Require Power to be applied for activation**

*** Tally lamps active when connected to ground**

Tally IN DB-15 Female	
Pin1-M1Grn	Pin9-Gnd
Pin2-M1Red	Pin10-M4Red
Pin3-M1Yel	Pin11-M3Grn
Pin4-Gnd	Pin12-M3Red
Pin5-M4Grn	Pin13-M3Yel
Pin6-M2Grn	Pin14-Gnd
Pin7-M2Red	Pin15-M4Yel
Pin8-M2Yel	


Monitor 4 HDSDI/SDI Input
Monitor 3 HDSDI/SDI Input
Monitor 2 HDSDI/SDI Input
Monitor 1 HDSDI/SDI Input
OUT 4 IN
OUT 3 IN
OUT 2 IN
OUT 1 IN
HD/SDI
TALLY
12VDC 3.5A
Marshall Electronics, Inc.
Active Output Re-Clocked and Re-Shaped
Active Output Re-Clocked and Re-Shaped
Active Output Re-Clocked and Re-Shaped
Active Output Re-Clocked and Re-Shaped
12 VDC from V-PS12-5V-1 power supply Left Pin - Pos Right Pin- Neg